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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,451	05/06/2004	Robert H. Devine II	839-1306 3450	
30024	7590 11/30/2005		EXAMINER	
NIXON & VANDERHYE P.C. 901 NORTH GLEBE ROAD, 11TH FLOOR			LIN, ING HOUR	
	N, VA 22203	LOOK	ART UNIT	PAPER NUMBER
	•		1725	

DATE MAILED: 11/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office A 4' O	10/709,451	DEVINE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Ing-Hour Lin	1725				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be to rill apply and will expire SIX (6) MONTHS fror cause the application to become ABANDON	N. imely filed of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 16 Se	eptember 2005.					
3) Since this application is in condition for allowar	_					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>4-13</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>4-13</u> is/are rejected.						
7)⊠ Claim(s) <u>13</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner	г.					
10) The drawing(s) filed on is/are: a) □ acce	epted or b) objected to by the	Examiner.				
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is of	ojected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a	a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior						
application from the International Bureau	(PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summan	y (PTO-413)				
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	Date				
B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	Patent Application (PTO-152)				

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DETAILED ACTION

Claim Objections

1. Claim 13 is objected to because of the following informalities: Claim 13, line 1, "claim 1" should be changed to -claim 11". Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 4. Claims 4-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Correia et al in view of Coulson.

Correia et al (col. 3, lines 64+) teach the claimed casting method and ceramic core for producing a hollow airfoil investment-cast article such as a turbine nozzle 11 by using internal ceramic core 128, shaping a temporary wax form 114 having wax flash ribs 126B at the free end 132 of the core, and external shell 130 and pouring of molten metal into a space created by removal of wax form. Correia et al fail to teach the use of internal ceramic core with datum pad and method

However, Coulson (col. 1, lines 47+) teaches the use of datum pad (plastic identification tag 30) and method for the purpose of effectively providing datum pad on a ceramic core for use in casting molten metallic materials having corresponding data (cast geometric features) corresponding to the datum pad on the core. It would have been obvious to one having ordinary skill in the art to provide Correia et al the use of datum pad (plastic identification tag 30) and method as taught by Coulson in order to effectively provide datum pad on the temporary wax flash ribs 126B at the free end 132 of the internal ceramic core for use in casting molten metallic materials having corresponding data (cast geometric features) corresponding to the pad on the core.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ing-Hour Lin whose telephone number is (571) 272-1180. The examiner can normally be reached on M-F (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (571) 272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent

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applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bred.

I.-H. Lin

11-23-05

KEVIN KERNS Kerin kung 11/28/05 PRIMARY EXAMINER

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